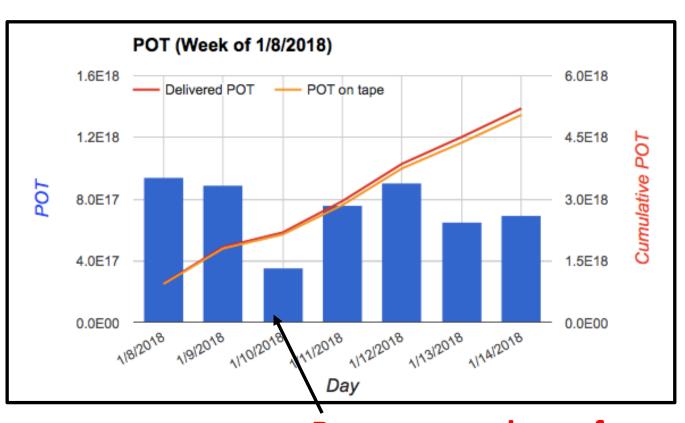
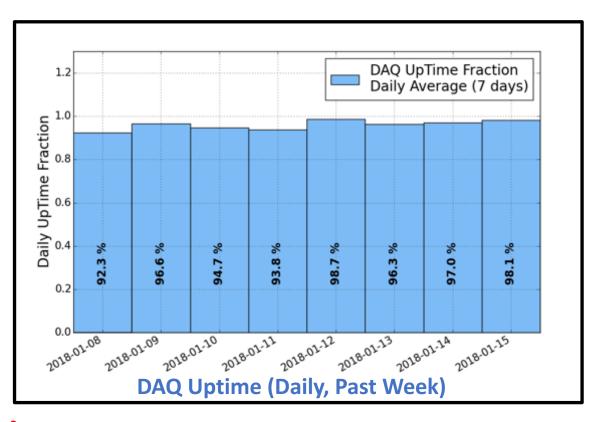




MicroBooNE Experiment report (2018/01/08 – 2018/01/22)

Beam Statistics (2018/01/08 - 2018/01/15)





Beam went down for maintenance

Total POT delivered: 5.203 X 10¹⁸

Total POT recorded on the tape: 5.0468 X 10¹⁸

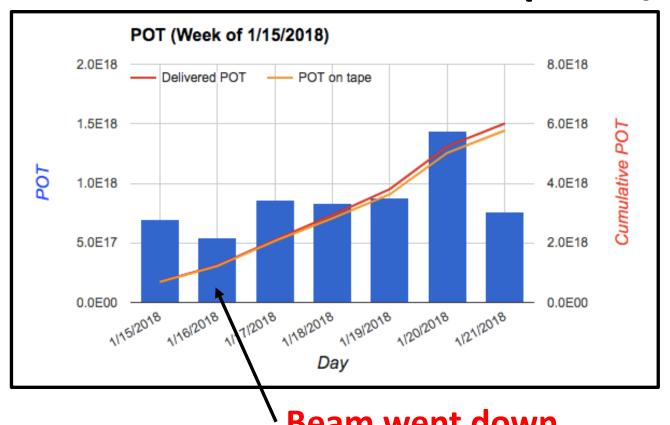
Average BNB Uptime: 91%

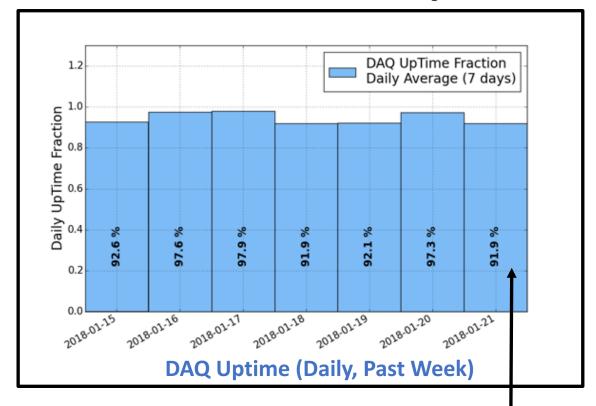
Average POT-Weighted DAQ Uptime: 97%

During beam down time (5.30 AM – 5.00 PM on Jan.10)

- Some DAQ stability test were performed to see the impact of increasing the cosmic ray data collection for physics analyses
- Tried to reach the target ratio of 4:1 EXT : BNB
- When the external trigger rate was 10 Hz or 12 Hz, average time duration of a run dropped down to ~100 minutes (not helping to get higher DAQ uptime).
- MicroBooNE run coordination team met Bonnie King and SLAM team
 - Discussed lessons learned from last week DAQ downtime due to DAQ RAID rebuild
 - Discussed options available for the MicroBooNE once the service warranty expires for DAQ computers on April 26 th

Beam Statistics (2018/01/16 - 2018/01/22)





Not updated properly ~ 98 %

'Beam went down

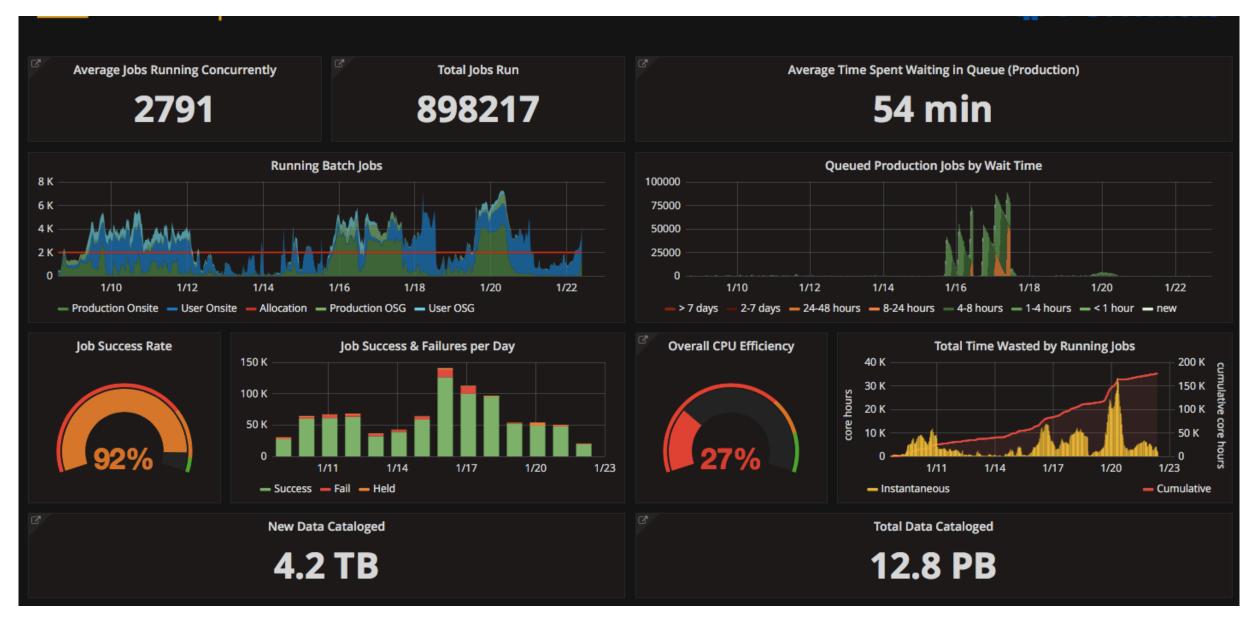
Total POT delivered : **6.0075** X **10**¹⁸

Total POT recorded on the tape: 5.7738 X 10¹⁸

Average BNB Uptime: 92%

Average POT-Weighted DAQ Uptime: 96.1%

Computing Summary(2018/01/08 - 2018/01/22)



Low CPU Efficiency

- Processing campaign which launched ~ 170 K+ jobs without any files to be processed
- A few processing campaigns which ran out of files to be processed but still kept submitting files
- dCache slow down which caused inefficiency in copying files in and out of worker nodes
- In-time anatree processing failed over the week end

During the week

- Beginning of the year during the weekly cryo walk through Carrie McGivern (ELO), Bryan Johnson noticed liquid Ar pump No. 1 was about to fail
- Planned to switch to liquid Ar pump No.2 on Tuesday (Jan. 16)
- Pump No. 1 failed on Monday, but the cryo operation was performed on Tuesday as planned by the cryo team (failure on Monday didn't created any additional problems)
- High voltage was ramped down for repair work and asked for a beam down time on Tuesday (back to normal 4.30 pm on same day)
- Had early signs of possible disk failure again in event builder machine (We are keeping a close eye)

Summary

- MicorBooNE is running smoothly with continuous neutrino data taking
- Switched to liquid Ar pump No.2 from liquid Ar pump No.1
- MicroBooNE's large scale Monte-Carlo and data production continues